

PRODUCT PERFORMANCE / EFFICACY REVIEW

Mark Suarez, Entomologist - IB

Mark ES
28 August 2008

DATE: 28 July 2008

EPA REG. NUMBER: 68543-1

PRODUCT NAME: Bengal Roach Spray
REGISTRANT: Bengal Products Inc.

PM: Richard Gebken, PM10
REVIEWER: Ann Sibold

DECISION #.: 392098
DP BARCODE: 351740
ACTION: R340

ACTIVE INGREDIENT(S): 069005, Phenothrin2.0%

TYPE: Aerosol Spray

OPPTS GUIDELINE(S): 810.3500

MRID: 47370701 Submitted GLP? No.

SITES & PESTS Indoors Cockroaches

LABEL APPLICATION RATE: Not specified

STUDY APPLICATION RATE: 1 g/approximately 28 in²

STUDY SUMMARY

MRID 47370701. Spero, N. (2007) Testing Flushing Efficacy of an Aerosol Spray Against German Cockroaches. Project Number: 020/0082, N0201207001A136. Unpublished study prepared by Insect Control & Research, Inc. 33 p.

The previous registration notice required the registrant to remove flushing claims, as no data had been provided in support of such claims. In response, the registrant submitted MRID 47370701. The submitted data were generated in laboratory trials with German cockroaches, *Blattella germanica*. The executive summary states that "Bengal Roach Spray was not effective for flushing cockroaches from their harborage, but was effective as an insecticide providing 100% KD at +2 hours and 98.0% mortality at +24 hours."

The trial was conducted with 5 replicates of 10 male German cockroaches approximately 12 weeks old. Cockroaches were placed in a circular, vertical harborage of cardboard 1.5" in diameter and 6" tall. Cockroaches were allowed to acclimate for ca 2 hours. Immediately prior to treatment application, the harborage exit doors were provided at the top and bottom of the harborage. The harborage was sprayed from 24" with approximately 1 g of product. The time to flushing of each cockroach was recorded for the first fifteen minutes post-application, as were 2-hour knockdown and 24-hour mortality. Controls were not treated and only a single 15 minute flushing observation was made.

The results indicate that the formulation is not particularly effective as a flushing agent even when applied relatively near the harborage (i.e., 50% flushing, with high variability: 30-100%).

ENTOMOLOGIST'S COMMENTS AND RECOMMENDATIONS

The cited data have been submitted in support of claims that the product:

- 1.) Flushes
- 2.) Bengal Roach Spray's flushing action forces insects out of hiding
- 3.) Flushing action drives insects out of hiding and kills them

The study author found that the product was not effective as a flushing agent.

The study provided does not support flushing claims, as insufficient flushing was demonstrated and controls were inadequate (i.e., no application of control solution in same manner as treatment and single "flushing observation" at 15 minutes.